Recombinant Human ZAP70, GST-His

Cat. No. ZAP70-750H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ZAP70 Amino acidsM1-A619, N-terminally fused to GST-His6-Thrombin cleavage site. It is expressed in Baculovirus infected*Sf9 cells.*
Species	Human
Source	Sf9 Cells
ProteinLength	1-619 a.a.
Description	ZAP70 is a non-receptor protein tyrosine kinase (part of the Syk/Zap70 family) that is involved in signaling by the T-cell antigen receptor (TCR). Ligation of the TCR/CD3 receptor in Jurkat T-cells induces phosphoprotein complexes which contain ZAP70. TCR zeta chains are initially phosphorylated by p56Lck that lead to the recruitment of ZAP70 via its SH2 domain. ZAP70 in turn phosphorylates other proteins in the TCR-phosphoprotein complex. One of the natural substrates for ZAP70 is the zeta-chain dimer of the TCR/CD3 complex.
Purification	One-step affinity purification using GSH-agarose.
Product Identity	ZAP70 was confirmed as ZAP70 by specific Western Blotting using anti ZAP70 antibody.
MW	99,496 Da.
Storage Buffer	50 mM Tris-HCl, pH 8.0; 100 mM NaCl, 5 mM DTT, 4 mM reduced glutathione, 20%

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	glycerol.
Concentration	0.263 μg/μl.
Specific Activity	76 pmol/μg×min.
Storage	-80°C. Avoid repeated freeze-thaw cycles!

GENE INFORMATION

Gene Name	ZAP70 zeta-chain (TCR) associated protein kinase 70kDa [Homo sapiens]
Synonyms	ZAP70; zeta-chain (TCR) associated protein kinase 70kDa; SRK; STD; TZK; ZAP-70; FLJ17670; FLJ17679; zeta-chain (TCR) associated protein kinase (70 kD); Tyrosine-protein kinase ZAP-70; 70 kDa zeta-associated protein Syk-related tyrosine kinase; EC 2.7.10.2; zeta-chain associated protein kinase 70kDa; zeta-chain associated protein kinase, 70kD
Gene ID	7535
mRNA Refseq	NM_001079
Protein Refseq	NP_001070
MIM	176947
UniProt ID	P43403
Chromosome Location	2q12

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Pathway	Natural killer cell mediated cytotoxicity; Primary immunodeficiency; T cell receptor signaling pathway; Signaling in Immune system
Function	ATP binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; phosphotyrosine binding; transferase activity; protein binding

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